

WHAT IS CLAIMED IS:

1. A mounting-error inspecting method for inspecting whether a correct component is mounted on a component mounting substrate passing through a component mounting step, wherein

component identifying information for identifying a component and information for identifying a specific substrate on which the component is mounted are set when processing of replacing or replenishing the component is executed in the component mounting step;

the component identifying information and substrate identifying information set in the component mounting step are obtained in an inspecting step, a substrate corresponding to the substrate identifying information is specified among supplied substrates, and inspection on whether the correct component is mounted on the substrate is executed for the substrate; and

a step of specifying a component to be inspected in accordance with the component identifying information, a step of obtaining the image of the component to be inspected and extracting a character string from the image, and a step of determining whether the component to be inspected is a correct component by comparing the extracted character string with a character string to be printed on the component to be inspected are executed.

2. A mounting-error inspecting method for inspecting whether a correct component is mounted on a component mounting substrate passing through a component mounting step, wherein

component identifying information for identifying a component is set when processing of replacing or replenishing the component is executed in the component mounting step,

a step of obtaining the component identifying information set in the component mounting step and specifying a component to be inspected in accordance with the component identifying information is executed in an inspecting step and then, the inspection on whether a correct component is mounted is executed for a predetermined number of substrates to be supplied after component identifying information is obtained, and

a step of obtaining the image of the component to be inspected and extracting a character string from the image in the inspection and a step of comparing the extracted character string with a character string to be printed on the component to be inspected and thereby determining whether the component to be inspected is a correct component are executed.

3. The mounting-error inspecting method according to Claim 1, wherein

the component identifying information is information showing a mounting position on a substrate of the component to be replaced or replenished and design data or substrate inspection data for a component to be inspected is referred to specify a component to be inspected in the step of specifying a component to be inspected.

4. The mounting-error inspecting method according to Claim 1, wherein

the component identifying information is information showing the type of the component to be replaced or replenished and substrate design data or substrate inspection data for a component to be inspected is referred in accordance with the type of the component to specify a component to be inspected in the step of specifying a component to be inspected.

5. The mounting-error inspecting method according to Claim 1, wherein

the component identifying information is information for identifying a feeder to which the component to be replaced or replenished is supplied and mount data used in the component mounting step is referred in accordance with the feeder identifying information to specify a component to be inspected.

6. A mounting-error inspecting method wherein

inspection same as the inspection for a substrate specified as a substrate corresponding to the substrate identifying information is executed for a predetermined number of substrates supplied after the specified substrate in the mounted component inspecting method of claim 1.

7. The mounting-error inspecting method according to Claim 1, wherein

when a determination result that a predetermined number of substrates or more are correct components among the substrates specified as components to be inspected is obtained, an inspection result that correct components are mounted on a substrate to be inspected is output.

8. A substrate inspecting apparatus having a function of inspecting whether a correct component is mounted on a component mounting substrate prepared by and supplied from a component mounting machine, comprising:

an entering part for entering a character string to be printed on each component on a substrate to be inspected;

an information obtaining part for obtaining component identifying information for identifying a component replaced or replenished in the component

mounting machine and substrate identifying information for identifying a specific substrate on which the replaced or replenished component is mounted;

a specifying part for specifying a substrate corresponding to the substrate identifying information among substrates to be supplied and specifying a component to be inspected in accordance with the component identifying information;

a determining part for executing processing of extracting a character string from the obtained image to be inspected and processing of comparing the extracted character string with the character string entered by the entering part and determining whether a correct component is mounted on the substrate in accordance with the comparison result; and

an outputting part for outputting inspection result information including the determination result by the determining part.

9. A substrate inspecting apparatus having a function of inspecting whether a correct component is mounted on a component mounting substrate prepared by and supplied from a component mounting machine, comprising:

an entering part for entering a character string to be printed on each component on a substrate to be inspected;

an information obtaining part for receiving component identifying information for identifying a component replaced or replenished transmitted from the component mounting machine;

a specifying part for specifying a component to be inspected in accordance with the component identifying information;

a determining part for executing processing of obtaining the image of the component to be inspected on each substrate and extracting a character string from the image and processing of comparing the extracted character string with the character string entered by the entering part for a predetermined number of substrates supplied after receiving the component identifying information and determining whether a correct component is mounted on the substrate in accordance with the comparison result; and

an outputting part for outputting inspection result information including the determination result by the determining part.

10. The substrate inspecting apparatus according to Claim 8, wherein

the entering part enters component inspection data including the character string to be printed on each component on a substrate to be inspected.

11. The substrate inspecting apparatus according to Claim 8, wherein

the determining part determines that a correct component is mounted on a substrate to be inspected when a comparison result that the extracted character string is adapted for a character string corresponding to the component to be inspected is obtained for a predetermined number of components or more among a plurality of components specified as the components to be inspected.